## I. Introduction: An Overview of Optical Linear Displacement Measuring Systems

The measurement of linear displacement is a very important topic encompassing a large number of solutions. Due to its ruggedness and often contactless characteristics, optical systems are one of the most adopted, particularly when fast changes in displacement need to be measured. Moreover, due to the physical principles that support the operation of some of those systems (e.g., optical interferometry), they allow the measurement of linear displacements with resolutions and accuracies below the nanometer. A brief overview of the measurement of linear displacement by optical or electro-optical means is presented in the following sections.

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